

Claims Pending and Amended after Fifth Office Action

1. (cancelled)
2. (cancelled)
3. (cancelled)
4. (cancelled)

5. (presently amended) A procedure for opening a coronary artery having a nominal opening size adjacent a target site ~~having at least a partial occlusion thereof~~, comprising the steps of:

a. determining an artery structure nominal opening size;  
b. providing a preformed hoop composed of a primary coil of material having one of a rounded and a ball end said primary coil being wound to form a secondary coil having an outer diameter matching said nominal opening size, and instilling memory retaining said nominal opening size

~~properties into said preformed hoop to urge said material into and including~~ said double coil shape;

c. providing a cylindrical delivery means for constraining said secondary coil into a linear configuration;

d. inserting said hoop and said delivery means into an artery at said target site ~~having an unsupported aperture size less than said nominal opening size~~; and

e. removing said delivery means whereby said hoop remains in said artery to support said artery in an open position wherein said secondary coil ~~outer diameter is larger than said target site unsupported aperture size and said~~

Claims Pending and Amended after Fifth Office Action

1. (cancelled)
2. (cancelled)
3. (cancelled)
4. (cancelled)

1     5.(presently amended) A procedure for opening a coronary artery  
2     having a nominal opening size adjacent a target site ~~having at~~  
3     ~~least a partial occlusion thereof~~, comprising the steps of:

4             a. determining an artery structure nominal opening size;

5             b. providing a preformed hoop composed of a primary coil  
6             of material having one of a rounded and a ball end said  
7             primary coil being wound to form a secondary coil having  
8             an outer diameter matching said nominal opening size, and  
9             instilling memory retaining said nominal opening size  
10           ~~properties into said preformed hoop to urge said material~~  
11           ~~into~~ and including said double coil shape;

12           c. providing a cylindrical delivery means for  
13           constraining said secondary coil into a linear  
14           configuration;

15           d. inserting said hoop and said delivery means into an  
16           artery at said target site ~~having an unsupported aperture~~  
17           ~~size less than said nominal opening size~~; and

18           e. removing said delivery means whereby said hoop remains  
19           in said artery to support said artery in an open position  
20           wherein said secondary coil ~~outer diameter is larger than~~  
21           ~~said target site unsupported aperture size and said~~

22           ~~secondary coil~~ reforms at and radially supports ~~is~~  
23           ~~configured to urge~~ said target site aperture ~~to said~~  
24           ~~nominal opening size.~~

1       6.(previously amended) The procedure of claim 5 wherein said  
2       deliver means is a rod arranged to fit within said primary coil.

1       7.(previously amended) The procedure of claim 5 wherein said  
2       delivery means is a delivery tube arranged to fit over said primary  
3       coil.

1       8.(previously amended) The procedure of claim 5 wherein said step  
2       of inserting comprises the step of inserting said delivery means  
3       into a coronary artery.

9. (cancelled)

10.(cancelled)

11.(cancelled)

12.(cancelled)

13.(cancelled)

14.(cancelled)

1       15.(presently amended) The procedure of claim 5 wherein said step  
2       of providing a preformed hoop includes the step of providing a  
3       longitudinal an open first spacing space within and along  
4       contiguous with sections of said preformed hoop having a second

5 coil longitudinal loop spacing less than said open first spacing  
6 space, said open first spacing space being of sufficient size to  
7 permit fluid flow into an artery side branch.

1 16.(presently amended) The procedure of claim 15, further  
2 including the step of orienting said open first spacing space  
3 within said artery to align said open first spacing space with said  
4 artery side branch.

1 17.(cancelled)

1 18.(cancelled)

1 19.(previously presented) The procedure of claim 5, before the  
2 step of inserting, further including the step of dilating said  
3 target site.